



Lethality, Survivability, Mobility and Sustainment for America's Army



MINES, COUNTERMINE AND DEMOLITIONS

In Support of Army's Transformation

Briefing for

NDIA Firepower Conference

BRIEFER:

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20 June 2001

The Oldest PM Office Established 1961

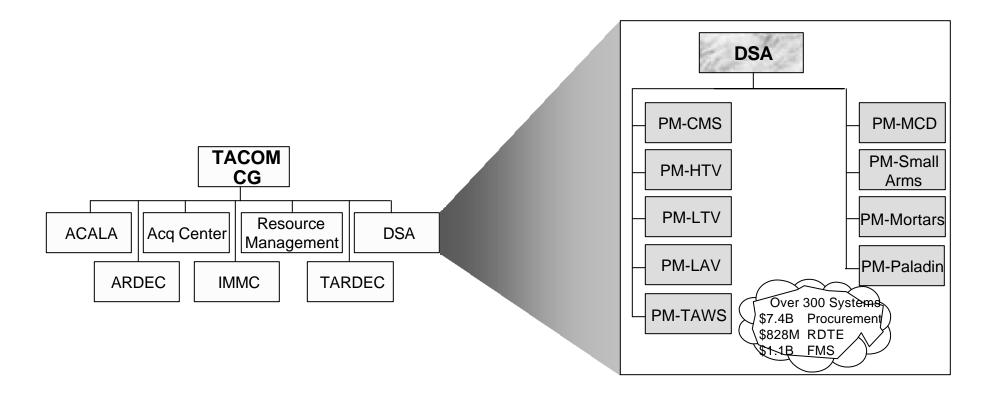
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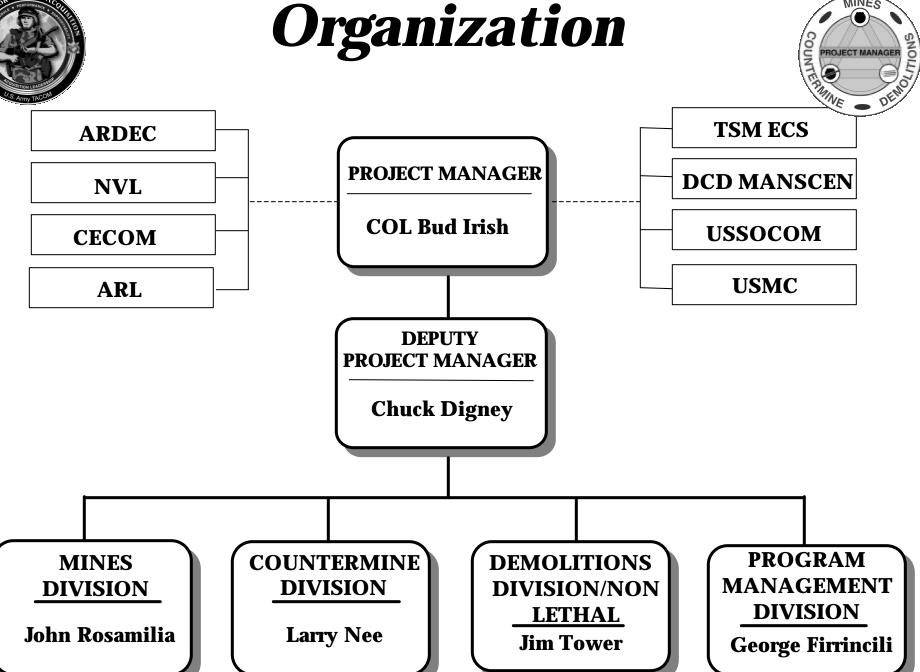


Where We Fit in the Tank-automotive & Armaments Command (TACOM)



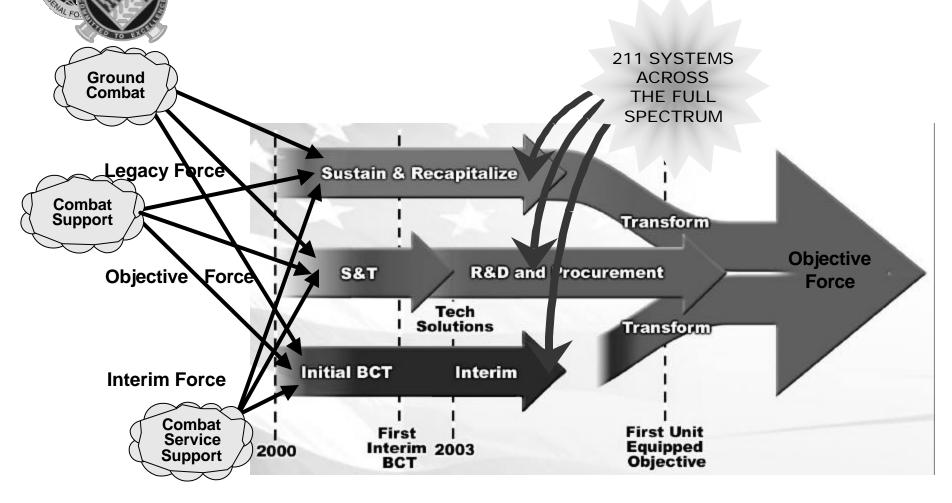








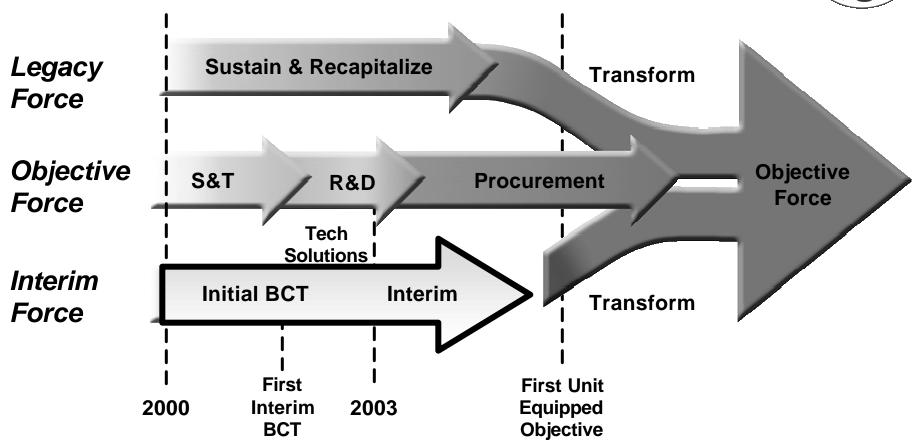






The Army Transformation



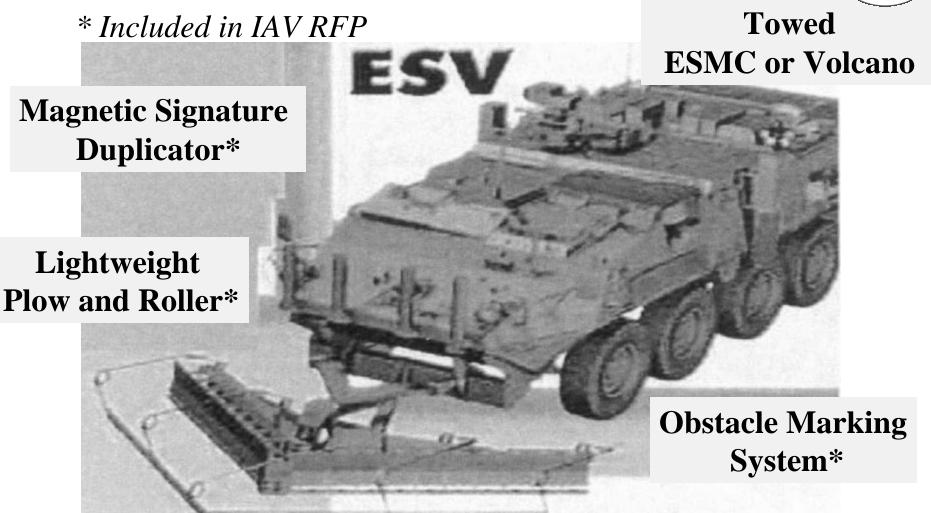


. . . Responsive, Deployable, Agile, Versatile, Lethal, Survivable, Sustainable



BCT Engineer Squad Vehicle (ESV)



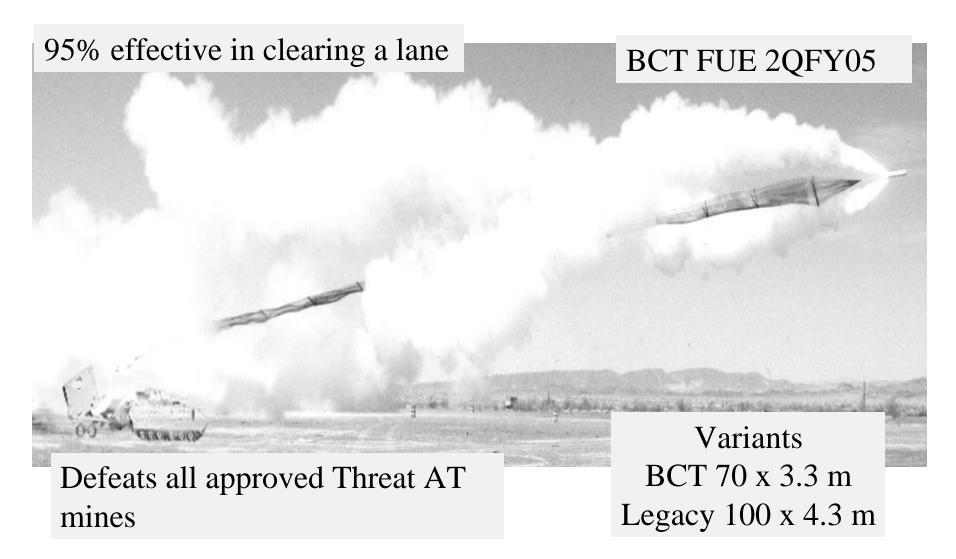


9-Hornets, 2-APOBS, 8 SLAMS, 3-PSS-12/HSTAMIDS



Explosive Standoff Minefield Clearer (ESMC)







VOLCANO (Warfighting Capability for BCT)



- Mounts on M200A1 trailer
- 2 40 port racks
- 40 M87A1 Canisters Per Rack/
- 6 Anti-Tank Mines Per Canister
- Maximum of 480 Mines Per Mission









Wide Area Munition (Hornet)





- 100M /360° Effective Radius
- Autonomous Arm to Kill Sequence
- Target Prioritization, Heavy & Light Track
- Remote Control M71 RCU
- 30 Day Operational Life
- Supports Early Entry Operations
- 82nd ABN DIV



Advanced Hornet

- Two-way commo 3 km
- Dual Mode Airborne sensor
- Minefield mapping
- Redeployability



Non-Lethal Capabilities Set (NLCS)



- Versatile Package of COTS, GSA & NDI Items As Well As New & Innovative Technologies
- CINC Requested & DA Directed Program to Procure & Field 10 Sets in FY00 & 01
 - Urgently Fielded First Set to Kosovo on 18 April 00
 - Four Additional Sets Crane
 - Requirement Is for 30 90 Sets
 - Funded for < 30 Sets in POM



DESCRIPTION

50+ types of items, 5 categories:

- 1 Individual Protective Equip.
- 2 Munitions
- 3 Individual Enhancement
- 4 Mission Enhancement
- 5 Training Devices



SELECTABLE LIGHTWEIGHT ATTACK MUNITION (SLAM)





- 2.2 LBS EFP WARHEAD
- BETTER PERFORMANCE THAN FASCAM
- MAGNETIC BOTTOM ATTACK
- PASSIVE INFRARED SIDE ATTACK
- TIME DEMOLITION, COMMAND DETONATION, SELF DESTRUCT



Anti-Personnel Obstacle Breaching System



(APOBS)

Certified insensitive munition

In production

Set-up ≤ 2 Min 35M stand-off

Two man portable



IOC Jun 02

Complex obstacle breacher .6-2M x 45 M path



Handheld Standoff Minefield Detection System (HSTAMIDS)

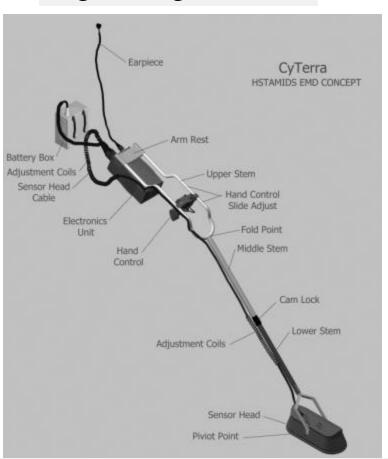


FUE 4QFY04

High detection/ Low false alarm rates



Light weight 7-8 lbs



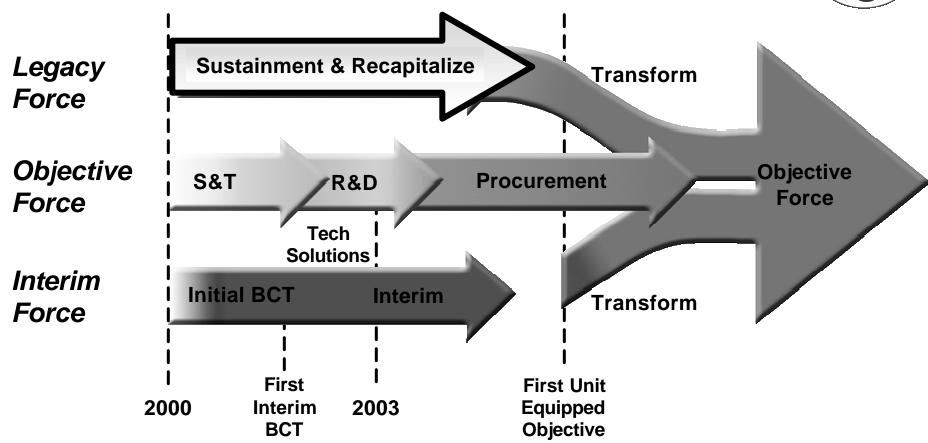
Locates mine within .15m

Integration efforts with Land Warrior



The Army Transformation





... Responsive, Deployable, Agile, Versatile, Lethal, Survivable, Sustainable



Non Self-Destruct Alternative (NSD-A)



- Discriminates (MITL)
- Replaces M14/M16

REPEATER BOOSTS RF COMMO LINK RANGE



SOLDIER CONTROLLER WITH APLA RADIO

RF COMMO LINK (UP TO 1KM)





FIGHTING POSITION EXCAVATOR (FPE)









Reduces time to prepare fighting position from fives hours to as little as one hour



Ground Standoff Minefield Detection System (GSTAMIDS)



Forward looking detection. Standoff neutralization. Fits on most vehicles.





Improved detection platform. Explosives confirmation. Improved neutralizer.

All AT Mine detection. Mechanical neutralization. Ten systems.





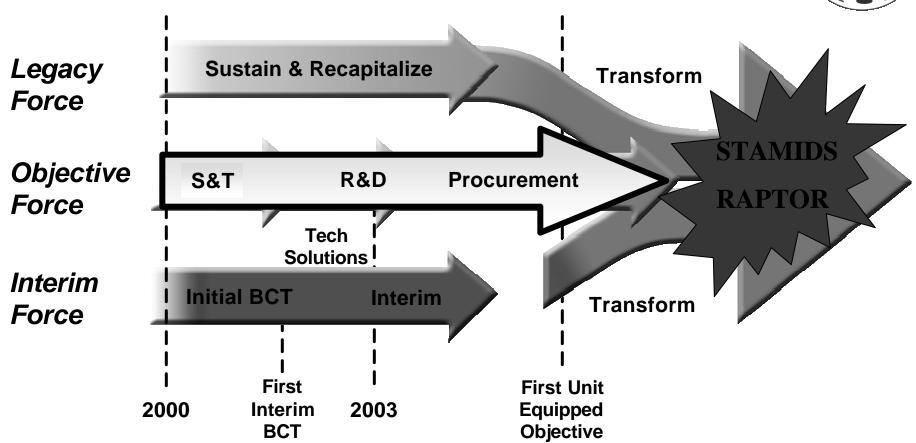


Metal AT mine detection Proofing and spares. Fielded: 1 FLW, 9 SIAD



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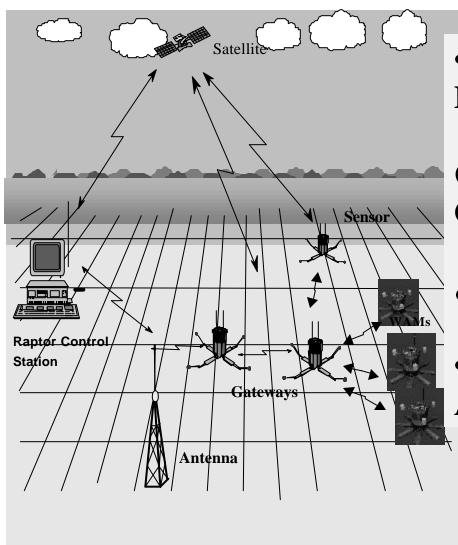


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CORE RAPTOR



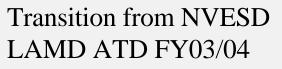


- ENHANCED MINEFIELD EFFECTIVENESS THROUGH:
- COMMUNICATION, COMMAND AND CONTROL OF ADVANCED HORNET
- COORDINATED ATTACKS & TACTICS
- INCREASED SITUATIONAL AWARENESS



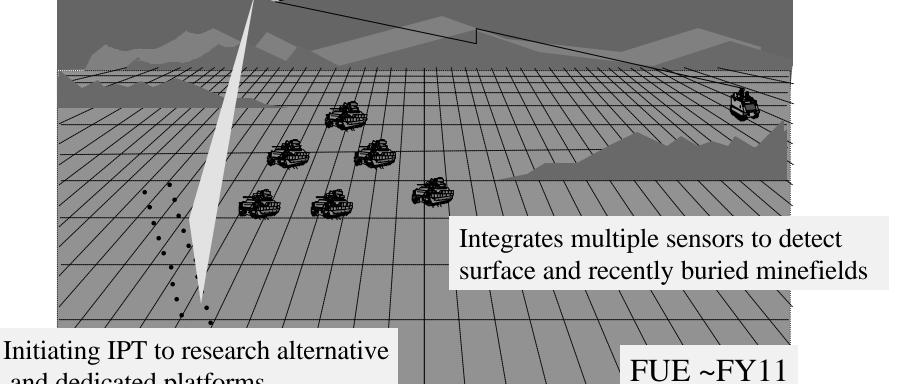
Airborne Standoff Minefield Detection System (ASTAMIDS)





and dedicated platforms

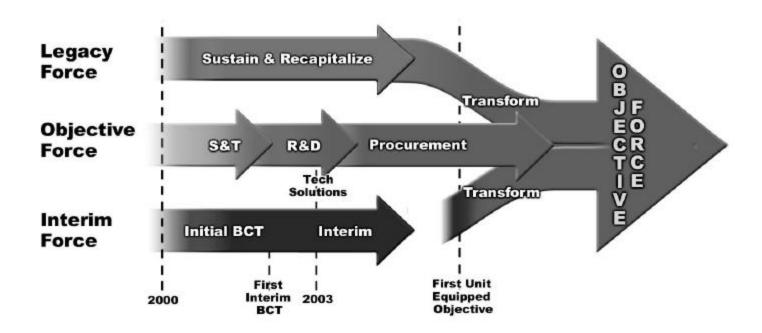
Employ automatic target recognition algorithms to analyze sensor and image data





PM-MCD Support To The Army Transformation





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